

# FETCO Models: CBS-2141xTS



# CBS-2142XTS



Fetco CBS-2141XTS & CBS-2142XTS Extractor Touch Screen models shown with optional LUXUS® L3D dispensers

# 1 gallon Hot Beverage Brewers—Standard Electrical Configuration

# **Commercial Hot Beverage Equipment**

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NOTICE TO INSTALLER: Please leave this book with the machine.

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**Description & Features** 

CBS-2140XTS Series coffee brewers feature universal spray over technology from the Cascading Spray Dome™.

The following variables are programmed for each batch size:

- Brew volume
- Prewet percent (Percentage of the brew volume) ŵ

Brew time •••

- Prewet delay (The time between prewetting and the brew cycle) ٠
- Adjustable number of pulses  $\dot{\mathbf{v}}$
- Bypass-infinitely variable for strength adjustment ٠
- Drip delay (The time between the end of the brew cycle and end of the brewing cycle...to empty the brewbasket) ÷

# Operating Principles

Using these variables, the software calculates how much water to use for prewetting and brewing. The total brew time digitally divides into several cycles. Within these cycles, the software calculates how long to spray water over the coffee grounds, and how long to pause before the next cycle begins. If desired, pulse count and length, brew-volume may be adjusted without changing brew time and brew-time may be adjusted without changing volume brewed.

# Factory settings

The following are the factory set defaults—all variables in the brew menu are adjustable: Brew Volume and coffee filter size:

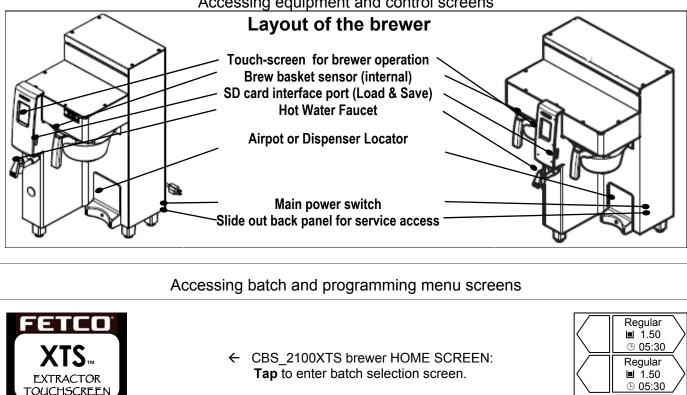
CBS-2140 single and Twin: 1 gallon/3.8 liters per brew Coffee Filters: 13" X 5" FETCO Product #F002 Brew Time, all models: Factory set at 5.5 minutes=[4 minute brew time + 1.5 minute drip delay] Temperature Control: Water temperature is factory set at -93°C/200°F

# Features

- Touchscreen Operation [XTS: EXtractor Touch Screen] ÷
- Cascading Spray Dome-No clog sprayhead ÷
- Brew mechanism is digitally adjustable ٠
- Intuitive Control Settings for Batch sizing ÷
- Infinitely variable bypass for strength adjustment ÷
- Four fully programmable batch sizes per side ٠
- User programs save-to and load-from SD cards ٠
- Recipe copy to SD card ٠
- Customizable batch name ŵ
- Screen logo customizable by user from SD card ٠
- SD card firmware program and upgrade installation ٠
- Dedicated Electrical Connection-not user selectable

- Brew water low temperature lockout •••
- ECO mode for tank heater energy savings ÷
- Dispenser locator under brew basket ٠
- Magnetic flux brew basket sensor ٠
- Brewbasket locks (configurable) ٠
- Totalizing counters for brewer functions ٠
- Optional gourmet stainless steel brewbasket ٠
- Demonstration Mode for review & training ٠
- Heavier gauge stainless steel cabinet  $\dot{\mathbf{v}}$
- Configurable for FLOWJET® pump module  $\dot{\mathbf{v}}$
- SD card Backup for menu items ٠
- Excellent value for gourmet coffee service

Accessing equipment and control screens



 $\leftarrow$  Tap left or right side batches  $\rightarrow$ ....AND.... Select and hold down a batch selector pennant to begin brew.

CBS-21XX

CBS-2100 home screen shown

Touch

screen

to unlock

Ready

Heating

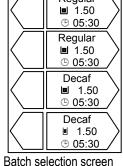
□ Filling

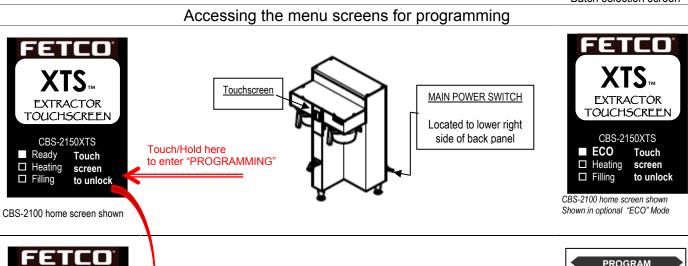
Ready

Heating

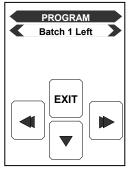
CBS-2100 home screen shown

□ Filling





→From power "OFF" →Touch screen will briefly illuminate →Turn main power switch to "ON" EXTRACTOR (Switch located lower right side of back panel) TOUCHSCREEN -When Complete: the HOME SCREEN will display CBS-2140XTS -Immediately touch and hold finger to enter programming Touch screen -Lower portion of the screen will highlight as shown to unlock -In 5-8 seconds "PROGRAMMING" screen will appear→



→Quick brewer setup	<u>NOTES</u>
Install plumbing and electrical utilities	-See Installation Section in this guide
Turn rear power switch "ON"	-Located on back, lower right side
Brewer hot water tank will fill in 4-8 minutes	-Ready screen will display "•FILLING"
Heater(s) activate when tank is full	-Ready screen will display "•HEATING"
Initial heating will be 15-30 minutes	-Place dispenser under brewbasket(s)
Tank displays "•READY" when filled & 200°F/93°C is reached	to collect any overflow and condensate
Brewer is ready to brew when "•READY" is displayed	-Best results if brewer remains "ON"

# **Operating Instructions**

# →To brew a single coffee batch, using default recipe

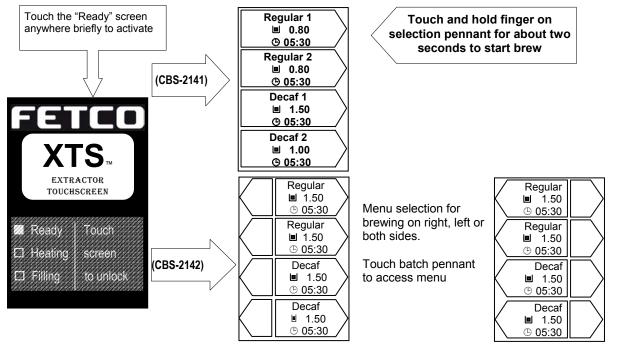
All CBS-2140xts series brewers are factory calibrated and preloaded with recipes and are ready to brew.

Place paper filter in brew basket	-Use any quality pleated filter paper
Add ground coffee	CBS-2140XTS Coffee Filters: 13" X 5 <sup>1</sup> / <sub>2</sub> "
Insert loaded brewbasket into brewer rails	-Brewbasket(s) must be in place
Have empty dispenser under brewbasket	-Use the convenient locator guide
Tap "- READY" screen to enter the batch selection menu	-A long duration "TAP" with fingertip
Touch a top batch key for "REGULAR 1"	-Touch batch pennant with fingertip
Brewer will brew and display the icon for the function step it is in	-Icon may be toggled for information
For dual side brewer, touch other side to access and activate the second side batches for brewing	-Right to left side switching by touch
Batch will complete brewing in 5 1/2 minutes	-Brew time: 4 minutes+1 <sup>1</sup> / <sub>2</sub> min_drin out

Batch will complete brewing in 5 ½ minutes

-Brew time: 4 minutes+1<sup>1</sup>/<sub>2</sub> min. drip out

NOTES



Example shown is CBS-2142 XTS Dual

# Brewing-shown by touchscreen

1		ng-shown by		
	ns displayed for brew		NOTES	
CBS-2141XTS SINGLE SIDE		CBS-2142XTS TWIN SIDE		
FETCO XTS TACTOR TOUCISCREEN "REA	ADY SCREEN" en to display menus	CBS_2132_3L CBS_2132_3L Ready Touch Heating screen Filling to unlock	Note: There are t "BREW AT TEMPERATURE The " <i>Brew At Temperature</i> "—" <b>C</b> is used for the illustration	DEFINITONS". DN" default routine
	it displays four ammed batch buttons per side. XTS has right and left 2141XTS single side 42XTS dual side→	Regular 1           ■ 1.50           ● 05:30           □           ■ 1.50           ● 05:30           □           □           ■ 1.50           ● 05:30           □           ■ 1.0           ● 05:30	Brew at tempertaure "ON" enabled: if this feature is enabled:brew start will be enabled when tank temperature reaches the temperature set point	CBS_2132 3L Ready Heating Filing
9 03.30	and hold one button or 2 seconds	Regular 1           # 1.50           Ø 95.30           Regular 2           Ø 1.50           Ø 05.30           Decaf 1           # 1.50           Ø 05.30	XTS:       screen "locks out"         EXTERATOR       until tank is at set         cms.2123 3:       temp.         Ready       Tank Temp *F	upper 1       If pressed in <u>"AUTO"</u> Brew At       Brew At         Temperature       Setting, a WAIT         State       Setting, a WAIT         Sette       Setting, a WAIT
	Brewing 2141XTS single side 42XTS dual side→	Regular 1 1.50 0.530          Important 0.530 3:30	Both sides of a dual side CBS-2142XTS brewing simaltanously, brewer sides will also operate indepentently or alone	INFO INFO 1:20 4:30 STOP
( 1:30 ←CBS-2	ew completed in drip delay) 2141XTS single side 42XTS dual side →	Regular 1 1.50 0 05:30         INFO           Regular 2 ⊎05:30         ↓ ↓ 006:30         ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Both sides of a dual side CBS-2142XTS brewing simaltanously. Left side completing drip delay	INFO INFO 
Brew basket sen Unit is brewable only w place (option may be disa	hen brebasket is in	INSERT BREW BASKET	CBS-2142XTS dual side right side completing drip delay, left side ready for next brew	Regular         INFO           № 1.50         5.30           Regular

-The FETCO CBS-2140XTS brewers have four brew batch menus per side.

Menus are preprogrammed by the factory with basic settings that will operate the equipment as purchased.

There are two batches each marked "Regular" and two marked "Decaf"

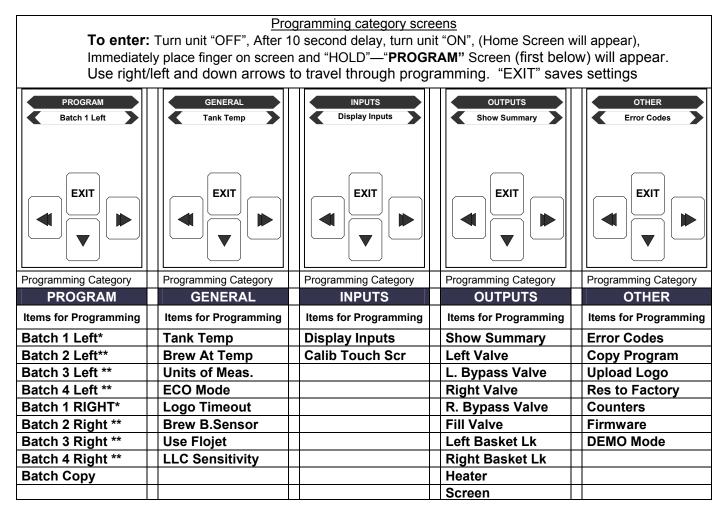
-Most operators prefer a full batch and half batch setting for regular and decaf or specialty coffees.

The half batch setting will need to be programmed by the operator to match the dispenser.

-Settings are adjustable and the name of the menu can be changed. -Batch 1 & 4 cannot be disabled.

Menu screen displayed	Accessing Programming	Menu screen displayed	Accessing Programming menu screens
FETCO XTS.	Turn unit "OFF" After 10 second delay: Turn unit "ON"	PROGRAM Batch 1 Left	<ul> <li>← Top line is programming category</li> <li>← Second line displays items for programming</li> </ul>
EXTRACTOR TOUCHSCREEN	<ul> <li>← "HOME" Screen on left will appear</li> <li>Immediately place finger on screen and "HOLD"</li> <li>Screen on right will appear</li> </ul>	(Programming menu screen)	Right and left hand arrows will scroll to the screens that display "Program, General, Inputs, Outputs and Other" The down arrow enters the individual programming items shown below

Programming-category screens: Menu Tree



PROGRAM	Programming Items	Factory set Default	Programming Range	Notes
Batch 1 LEFT*	<ul> <li>Batch Summary</li> </ul>	Display Summary		
	Batch Name	Regular 1(-16)	Choose from list: Regular1	(Regular 1-16) -OR- Write: any name
	Batch Volume	1.50 gal [ 0.50-2.00]	1.00 gal	
	Brew Time	4:00 mm:ss [ 2:00-10.00]	4:00 mm:ss <u>1                                    </u>	
	Nr Of Pulses	8	8    1 30	
	Prewet Perc.	0%	0 %    0 15	
	Bypass Perc.	0%	0 %    0 40	
	Drip Delay	1:30 mm:ss	1:30 mm:ss    0:30 5:00	
Batch 2 Left**	**Batch 2-4—Rig	ht <u>and</u> Batch2-4—Lef	t may be individually selected	l-or-entirely deleted
	Batch ON/OFF	ON	ON  []  ON OFF	
	Batch Summary	Display Summary		
	Batch Name	Regular 1	Regular 1-16;Write own name	
	Batch Volume	1.50 gal [ 0.50-2.00]	1.00 gal	
	Brew Time	4:00 mm:ss [ 2:00-10.00]	4:00 mm:ss <u> </u>   2:00 10:00	
	Nr Of Pulses	8	8  [] 1 30	
	Prewet Perc.	0%	0 %  _[]  0 15	
	Bypass Perc.	0%	0 %  _[]  0 40	
	Drip Delay	1:30 mm:ss	1:30 mm:ss    0:30 5:00	
Batch 3 Left **	(See Batch 2-Left)			
Batch 4 Left **	(See Batch 2-Left)			
Batch 1 Right *	(See Batch 1-Left)			
Batch 2 Right **	(See Batch 2-Left)			
Batch 3 Right **	(See Batch 2-Left)			
Batch 4 Right **	(See Batch 2-Left)			
Batch Copy	Copy From Batch	L1	L1-L4;R1-R4	
	Copy To Batch	L1	L1-L4;R1-R4	
	Copy?	L1→L2? (example)	NO  1]  YES NO	

# Menu Features: Batch Parameters

GENERAL	Programming Items	Factory set Default	Programming Range (display)				Notes		
Tank Temp.		200°F	200 °F				Correction for high altitude below		
Brew at Temp.	"OFF" allows brewing at any temperature.	"ON"				SE	SEE NOTE BELOW!		
Units of Meas.	• Temperature	°C <b>or</b> °F	°F   <b>[]</b> °F	°C		[	Switcha	able Unit	s]
	Volume	Gallons [Liters]	Gallon   <b>[]</b> Gallons	ns Liters		[	Switcha	able Unit	s]
ECO Mode	Energy Saving Mode	OFF		lode <u>I</u> OFF		wat	er tank t 70°F aft	l: Lowers emperatu er 1 hour ctivity	ire to
Logo Timeout		0:30 mm:ss	0:30 mr   <b>[]</b> 0:15	m:ss   5:00	)				
Brew B. Sensor		NORMAL	NORM   <b>[]</b> NORMAL C	IAL	DE	serv	icing. "	ervice us NORMAI	_" is
Use Flowjet		NO	NC  	) YES		Tr	ims wat	ter hand for Flowj	ling
LLC Sensitivity	Normal for most water "HIGH" for R.O.	NORMAI			NORMAL				mosis
BREW				CI	hart to co	rrect for al	titude for	boiling po	int
REW AT TEMP: "ON"			ETCO			tank water Suggested	temperat Boiling	ture. Suggested	Boiling
EFAULT: FACTORY P		BREWER)	XTS	[ft]	[m]	Setting[°F]	point[°F]	Setting[°C]	point [°
REW START" Batch Se hk temperature is at set		e accessible until	EXTRACTOR TOUCHSCREEN	0 500	0 152	200 200	212.0 211.0	93 93	100.0 99.5
e "BREW START" scre		tion Buttons	CBS_2132 3L eady   Tank Temp °F	1000	305	200	210.1	93	98.9
come accessible when			107	2000	610	200	208.1	93	97.8
mperature. The screen EMP" is selected.	at right displays when	the "BREW AI	ling	2500	762	200	207.2	93	97.3
				3000	914	200	206.2	93	96.8
REW AT TEMP: AUTO			NFO Regular 1 ■ 1.50 ● 05:30	3500	1067	197	205.3	92	96.3
nis allows the "BREW S the selected temperatu				4000 4500	1219 1372	195 194	204.3 203.4	91 90	95.7 95.2
the temperature is too I			Regular 2 ■ 1.50 ● 05:30	5000	1524	194	202.4	90	94.7
mperature is reached.			Decaf 1 92° ■ 1.50 ● 05:30	5500	1676	193	201.5	89	94.2
splay showing a thermo IPORTANT: ALWAYS I			STOP U 1.00 STOP 5:30	6000	1829	192	200.6	89	93.6
skets when in the BRE		The brew	<b>©</b> 05:30	6500	1981	191	199.6	88	93.1
REW AT TEMP: OFF	USER SELECT		mended)	7000	2134	190	198.7	87	92.6
	at any temperature abo r two sided brewer if one s			7500 8000	2286 2438	188 187	197.8 196.9	86 86	92.1 91.6
				8500	2591	185	196.0	85	91.1
INPUTS	Programming Items	Factory set Default	Programmi (disp	-	ange		N	otes	I
Display Inputs	Input Summery		R. Brew Basket Sens. L. Brew Basket Sens. H. Liquid Level probe H. Tank Temperature L. Tank Temperature F SD Card Recognized	[ single/o					
			Tank Temp. 200						

OUTPUTS	Programming Items	Factory set Default	Programming Range (display)	Notes
Show Summary	Output Summary		Left Brew FR1540Left Bypass FR2150Right Brew FR1540Right Bypass FR2150Screen Contrast8Screen Brightness8Touch To Return	FR=Flow Rate ml/min
Left Valve Test OR Calibrate	Left Valve Test	(Press to test)	TEST Press To Test	Runs valve to verify flow. Have container under brewbasket!
33 33 33 33	• L. Valve Calib	Calibrate *Flow Rate	1540 ml p m  l 1400 1900	Factory or service use for flow rate
L. Bypass Valve Test OR Calibrate Not on CBS 2130XTS	• Left Bypass Valve Test	(Press to test)	TEST Press To Test	Runs valve to verify flow. Have container under brewbasket!
33 33 33 33	• L. Bypass Valve Calib	Calibrate *Flow Rate	2150 ml p m  l 1900 2600	Factory or service use for flow rate
Left Valve display i	s only for CBS-2142xt	tx Series- dual station br	ewer. CBS-2141xts Single series dis	plays RIGHT SIDE only
Right Valve Test OR Calibrate	Right Valve Test	(Press to test)	TEST Press To Test	Runs Valve to verify flow. Have container under brewbasket!
33 33 33 33	• R. Valve Calib	Calibrate *Flow Rate	1540 ml p m  l 1400 1900	Factory or service use for flow rate
R. Bypass Valve Test OR Calibrate Not on CBS 2130XTS	• Right Bypass Valve Test	(Press to test)	TEST Press To Test	Runs valve to verify flow. Have container under brewbasket!
»» »» »» »»	• R. Bypass Valve Calib	Calibrate *Flow Rate	2150 ml p m  l 1900 2600	Factory or service use for flow rate
Fill Valve	• Fill Valve Test	(Press to test)	TEST Press To Test	Operates fill valve. Have container under both brewbaskets!
Left Basket Lk. Not on CBS 2130XTS	Left brew basket lock test	(Press to test)	TEST Press To Test	Energizes brew basket lock. For factory or service use
Right Basket Lk. Not on CBS 2130XTS	Right brew basket lock test	(Press to test)	TEST Press To Test	Energizes brew basket lock. For factory or service use
Heater	Heater Test	(Press to test)	TEST Press To Test	Energizes Heater(s) Use for servicing.
Screen Brightness OR Contrast	Screen Contrast	Contrast	8  0  1 10	
	<ul> <li>S. Brightness</li> </ul>	Brightness	8  0  1 10	

# How to calibrate the flow rate

Set the flow rates of components to adjust for taste profile and for over or under potting. Built-in algorithms in Brewer controller software corrects brew parameter to customer preferences or to trim variations in flow control components **NOTICE: This operation requires operator hold finger on keypad position for one minute—without lifting it.** 

### 1) MEASURE THE FLOW RATE:

-Enter programming mode, scroll left to "OUTPUTS"

-Scroll down to "Left(or)Right Valve Test"

-Place 5 liter/2gal measuring container under empty brewbasket.

One good way to measure is to weigh the test water. Use a scale for at least 5 kg/12lb

-Press To Test the Brew Valve. →! Keep finger on touchpad for one minute! !!DO NOT STOP!! It is very important for this test to keep finger in place for the entire minute.

Measure the results of the flow in the 5-liter measuring container and hold the number. 2) **AUTOMATIC** Built-in CALIBRATE THE FLOW RATE

-Enter this number, in milliliters, into the calibration slider for the Valve tested in the OUTPUT MENU. -**Use milliliters**. If measured in fluid ounces (fl.oz) multiply by 29.57 to convert to milliliters

-After entering the measured volume, exit PROGRAMMING and return to the normal screens 3) **MANUAL METHOD** Operator input: <u>CALIBRATE THE FLOW RATE</u>

Use the amount measured, in milliliters, divided by programmed value and multiply by the current setting

3400 ml p m	← Example of CBS-2150 brew	Actual Volume	Y	CURRENT	_	NEW	Enter new setting on the slider shown and
1l 3000 3800	valve slider	Programmed Volume	^	SETTING	-	SETTING	EXIT to save

Obtain programmed volume from "PROGRAM" Menu under "Batch Summary".

Note-match correct batch number to correct side, if two sided.

# By entering the new flow rate number into the brewer, the software automatically corrects the valve flow discrepancy

# Hot water convenience tap

- 1. The XTS\_Series coffee brewers include a hot water convenience tap for single cup beverage purposes.
- 2. Single use delivery volume should not exceed maximum 16fl.oz/473cc.

OTHER	Programming Items	Factory set Default	Programming Range (display)	Notes
Error Codes	Display Errors	(Codes)	1: 2: 3:	See Error Code Chart for references
	Reset Errors	(Reset)	Reset	<pre>!!Errors must be corrected and cleared!!</pre>
Copy Program	• From SD to B.	SD→ Brewer	SD→ Brewer II YES NO	Setup upload Please insert SD card with the setup data!
	• From B to SD	Brewer→ SD	Brewer→ SD 0 YES NO	Setup download Please insert SD card with sufficient space (≥2GB)
Upload Logo		Upload Logo	UPLOAD LOGO Are you sure	Please insert SD card with logo file!
Res to Factory & Select Brewer Type	See next line: "Select Brewer Configuration"	Reset to default	Reset to Default Are you sure	Completely overwrites all user setup, incl. user logo.
Select Brewer Configuration	CBS_2131 3L; CBS_2131 1G CBS_2132 3L; CBS_2132 1G CBS_2141; CBS_2142 CBS_2151; CBS_2152	Screen appears after pressing "Res to Factory" <b>[Above]</b>	Select Model CBS [2131-2152]Series	Scroll to your brewer and tap ENTER tab
Counters	<ul> <li>Display Counters -OR-</li> <li>Display Resettable Counters</li> </ul>	Counters Display Total Counters	Total CountersLeft Brews0Left Brew activated0Left Brew [gal]0Left Bypass activated0Left Bypass [gal]0Right Brews0Right Brew [gal]0Right Brew [gal]0Right Brew [gal]0Right Brews [gal]0Right Brews [gal]0Right Brews [gal]0Right Brews [gal]0Fill Valve Activated0Fill Valve [gal]0Heater Activated0Heater Activated0Heater 4ctivated0Heater 4ctivated0Heater 4ctivated0Heater 4ctivated0Heater 4ctivated0Heater 5ctivated0Heater 4ctivated0Heater 5ctivated0Heater 5ctivated0H	Identical screen for Resettable Counters Will display when selected. See next line to reset to zero NOTE: "Total Counters" is not user resettable
Reset Counters	• Resets Counters	Reset All Counters	Reset All Counters Are you sure I YES NO	Resetting will restart counter from zero
Firmware	Firmware Version -Software type	Display Firmware Version	CBS_2142 [or model type] SW ver 2.1.0Z HW ver 1.1.3 QP ver. 4.5.01	Displays firmware version
	• Update Firmware	UPDATE	UPDATE	Firmware upload Please insert SD card with the firmware file!
DEMO Mode	DEMO ON/OFF		OFF	Demonstrates the controls for training. Disables all components in demo mode.

Insert Brewbasket!



	Error code 001: Software error-error on start up or corrupted software
ERROR CODES	Error code 50: Shorted temperature probe
	Error code 51: Open temperature probe
	Error code 100: Initial Fill Error. Initial fill time was more than 4 minutes after power up.
	Error code 101: Error on refill
	Error code 102: Unwanted fill; possible leak
	Error code 103: Liquid level probe fault
	Error code 201: Heater open, high limit thermostat, or Solid State Relay (SSR) fault
	Error code 255: Touch pad error, usually from longer than 2 min touch contact

# **Operator Training**

Review the operating procedures with whoever will be using the brewer.

#### Pay particular attention to the following areas:

- 1. Always pre-heat the dispensers before the first use of each day by filling them half way with hot water, and letting them stand for at least 5 minutes.
- 2. Do not remove the brew basket from a coffee brewer until it has stopped dripping.
- 3. Make sure the dispenser is empty before brewing into it.
- 4. Show how to attach covers, close, and or secure the dispensers for transporting.
- 5. Show the location and operation of the water shut off valve as well as the circuit breaker for the brewer.
- 6. Steam from the tank will form condensation in the vent tubes. This condensation will drip into and then out of the brew baskets. Up to 1/4 cup/118cc discharging overnight is possible. Place an appropriate container under each brew basket when not in use.
- 7. We recommend leaving the power to the brewer on overnight. The water tank is well insulated and very little electricity is used to keep the tank hot. Leaving the brewer in the "ON" position will also avoid delays at the beginning of shifts for the brewer to reach operating temperature.

#### Cleaning & Maintenance

#### After Each Brew:

- 1. Dispose of grounds and rinse brew basket.
- Never strike a brewbasket or hit it against a hard surface.
   This will damage the brew cone, and may damage the brewbasket support rails
- 3. Rinse dispensers before reuse.

#### Every Day:

- 1. Wash brew basket with hot sudsy water.
- 2. Pull CSD from the spray head, it is magnetically attached. Use gloves or a heavy towel. Wash off any film and reattach. Use vinegar if limescale filming is present.
- 3. Clean dispensers with hot suds water and a brush, rinse and air dry.
- 4. Use only a soft cloth and hot suds on the outside to avoid scratches. Never use abrasives that will scratch surface.

#### Weekly

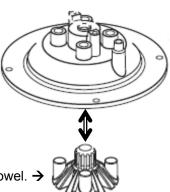
- 1. Use a commercial coffee dispenser cleaner such as URNEX<sup>™</sup>, TABZ<sup>™</sup>, DIP-IT<sup>™</sup> or Squeak 'n Clean<sup>™</sup>.
- 2. Carefully Follow the instructions supplied with the cleaning product
- 3. Never use spray cleaners, solvent, solvent based cleaner or petroleum based polish anywhere on dispensers

#### Safety notes

- 1. Professional installation is required. This appliance is manufactured only for commercial use.
- 2. Operation requirements and maintenance for commercial cooking appliances differ from household appliances.
- 3. Operators must be trained for this equipment and must understand the use, maintenance and hazards.
- 4. Access to the service area is restricted to persons having safety/hygiene knowledge and practical experience of the coffee brewer. This appliance must be installed in locations where it can be overseen by adult trained personnel.
- 5. Do not attempt to move hot beverage equipment once it is filled. Drain equipment before moving. FETCO commercial coffee brewers prepare large amounts of coffee or tea in a single batch using very hot water. For safety, the brewer control locks the brew basket for 5.5 minutes after starting the brew. Do not attempt to defeat the factory set (default) time that the brew basket locked for safety from start of brew.

#### Warning

- 1. Turn off power before any cleaning procedure, including wiping the exterior for appearance reasons.
- 2. Dry the exterior, especially the face panel, before turning on power.
- 3. Do not apply any type of spray cleaner on the face panel of this equipment.
- 4. Never use solvent or solvent-based cleaner or petroleum based polish anywhere on this equipment.
- 5. Dry the face of the touch pad before turning on power
- 6. Do not electrically energize this equipment or attempt operation without all covers in place and all screws fastened.
- 7. Unplug machine before disassembly or servicing.



# Service Guide to a Successful Installation

(For Qualified Service Technicians Only)

If not installed correctly by qualified personnel, the brewer will not operate properly and damage may result. Damages resulting from improper installation are not covered by the warranty, and will void the warranty. Here are the key points to consider before installation:

#### Electrical:

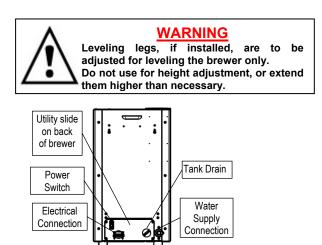
- 1. All CBS\_Series brewers require **an electrical ground wire**. Installation without grounding is dangerous.
- 2. Note Equipotential Terminal, if present, (To identify the terminals which, when connected together, bring the various parts of an equipment or of a system to the same potential, not necessarily being the earth (ground) potential, e.g. for local bonding.)
- 3. Verify voltages, polarity, circuits, and circuit breaker access before attaching equipment.
- 4. The electrical diagram is located in the Users Guide and online at www.fetco.com.
- 5. Make sure of the tight grounding of the equipment and use the external ground bolt.
- 6. The installation must comply with applicable federal, state, and local codes having jurisdiction at your location. Check with your local inspectors to determine what codes will apply.

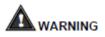
### Plumbing:

- 1. North America: All installations must comply with applicable federal, state, or local plumbing codes.
- 2. All Others: The water and waste piping and connections shall comply with the International Plumbing Code 2003, International Code Council (ICC), or to the Uniform Plumbing Code 2003 (IAPMO).
- Use an inline water filter for all beverage equipment. Install the filter unit after a water shutoff valve and in a position to facilitate filter replacement.
- The water line and newly installed filter cartage must be flushed thoroughly prior to connecting it to the brewer to prevent debris from contaminating the machine.
- 5. Verify that the water line will provide a flow rate of at least 1½gpm/ (5.7lpm) per minute and the water pressure is between 20-75 psig (138-517kPa) before making any connections.
- 6. Install a backflow prevention device. Most municipalities require a recognized backflow preventer.
- 7. Usable on all hot beverage and cold beverage equipment is a WATTS® SD-2 or SD-3.
- 8. WATTS spring loaded double check valve models are accepted by most zoning authorities.
- 9.  $\rightarrow$  The check valve should be as close to the water supply inlet of the beverage equipment as possible.

#### General:

- Utilize only qualified beverage equipment service technicians for service and installation.
- Always have an empty dispenser under sprayhead of all coffee brewing equipment-including when at idle





All electrical connections must be in accordance with local electrical codes and any other applicable codes.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

To prevent an electric shock hazard this device must be bonded to equipment in close proximity with an equipotential bonding conductor. This device is equipped with a grounding lug for this purpose and is marked with the following symbol



# Installation Directions -For professional installation only

# Brewer Setup

- 1. Review the dimensions for the unit and verify that it will fit properly in the space intended for it. Verify that the counter or table will support the total weight of the brewer and dispensers when filled (specifics-page 23).
- 2. Place the brewer on the counter or stand
- 3. For terminal bock electrical connected units: remove the lower utility slide out at the back of the equipment to access the electrical connections. The utility slide must remain close to the unit. Note: Utility slide out panel cannot be completely detached from the brewer.
- Access to the service area is restricted to persons having safety/hygiene knowledge and practical experience of the coffee brewer. This appliance must be installed in locations where it can be overseen by trained personnel
- 5. For proper operation, this appliance must be installed indoors where the temperature is between 10°C/50°F to 35°C/95°F. Drain and remove al liquid from equipment and lines if exposed to freezing temperatures
- 6. All commercial cooking equipment, including this unit, is not intended for use by children or persons with reduced physical, sensory, or mental capabilities. Ensure proper supervision of children and keep them away from the unit.
- 7. All commercial cooking equipment, including this unit, is not intended for use by children or persons with reduced physical, sensory, or mental capabilities. Ensure proper supervision of children and keep them away from the unit
- 8. This unit must be installed and serviced by qualified personnel only.
- 9. Installation must conform to all local electrical and plumbing codes. Installation by unqualified personnel will void the unit warranty and may lead to electric shock or burn, as well as damage to unit and/or its surroundings.
- 10. Review the dimensions for the unit and verify that it will fit properly in the space intended for it. Verify that the counter or table will support the total weight of the brewer and dispensers when filled (See: Technical Data).
- 11. Place the brewer on the counter or stand. When the brewer is in position, level it front to back as well as side-to-side by adjusting the legs.
- 12. Do not tilt appliance more than 10° to insure safe operation.
- 13. Unit is for protected indoor use only. Do not steam clean or use excessive water on unit.
- 14. This unit is not "jet-proof" construction. Do not pressure wash or use jet spray to clean this unit.
- 15. The unit is not waterproof-do not submerge or saturate with water.
- Do not operate if unit has been submerged or saturated with water.

#### Equipment exposed to flood and contaminated must never be used due to electrical and food safety.

#### General:

Utilize only qualified beverage equipment service technicians for installation. A Service Company Directory may be found on our web site, http://www.fetco.com.

#### Water Connection

- 1. This equipment is to be installed to comply with the applicable federal, state, or local plumbing codes.
- 2. Water supply inlet is a <sup>3</sup>/<sub>8</sub> inch male flare fitting
- 3. The brewer can be connected to a cold or hot water line.
- (Cold water is preferred for best beverage flavor, but hot water will allow for greater output.)
- 4. Install a shut off water valve near the brewer to facilitate service.

5. An in-line water filter should used. Install filter unit after the water shut off valve and in a position to facilitate filter replacement.

- 6. Flush the water supply line and filter **before** connecting it to the brewer.
- Verify that the water line will deliver at least 1½gpm/(5.7lpm) per minute and a flow rate of at least 1½gpm/(5.7lpm) per minute and water pressure is between 20-75 psig (138-517kPa) before making any connections.

8. Use a wrench on the factory fitting when connecting the incoming water line. This will reduce stress on the internal connections and reduce the possibility of leaks developing after the install has been completed

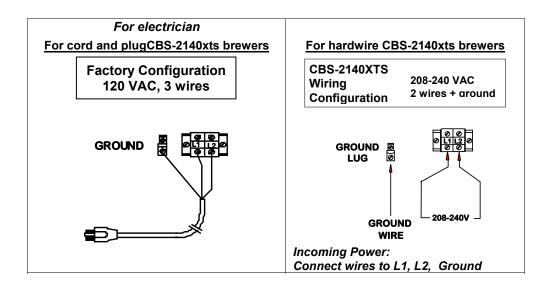
### Electrical-General

- 1. All FETCO brewers require Ground. Installation without ground may cause a hazard.
- 2. The electrical diagram with universal wiring instructions is located on the inside of the lower cover.
- 3. The installation must comply with applicable federal, state, and local codes having jurisdiction at your location. Check with your local inspectors to determine what codes will apply

### **Electrical Connection**

- 1. The CBS-2100XTS series models requires hardwire to the terminal block to a, grounded service
- 2. Verify that the actual voltage at the electrical service connection is compatible with the specifications on the brewer's serial number label. Make sure the electrical service match the current draw of the equipment.
- 3. All CBS-2150XTS have a terminal block for connecting the incoming power wires. Consult local codes to determine if a cord and plug can be installed on factory supplied terminal block equipment, or if the unit must be hard wired.
- 4. Access the terminal block for electrical connection by removing the pullout service module on the lower back.
- 5. A fused disconnect switch or circuit breaker on the incoming power line must be conveniently located near the brewer, and its location and markings known to the operators.
- 6. The temperature and water tank fill level are pre-set at the factory. There is no need to turn off the heaters during the installation process. The heaters are disabled by the control board until the tank is full of water. The heating process will start automatically when the tank has filled.
- 7. The body of the brewer must be grounded to a suitable building ground.
- 8. If Cord Connected: Do not use multiple taps for the plug. Consult local codes to determine if a single circuit is required for the cord and plug installed. Do not use extension cords for commercial food equipment.
- 9. All covers, removable panels and electrical connections must be secured in-place within the unit to meet national and local standards.

# See wiring diagrams in back of user guide for connections



	WARNING To reduce risk of electric shock or fire						
À	FETCO® Hot Beverage Equipment is for commercial use only.						
	Do not remove or open cover. No user serviceable parts inside. Refer installation and service to qualified personnel.						
$\land$	Caution, disconnect from power supply before servicing.						
À	GROUND:National Electrical Code requires separate grounding wire						
Â	Use dedicated circuit with capacity rated by local code or National Electrical Code for the current draw of this equipment. Check serial number plate on right side for power requirements.						
	Locate unit away from source of heat. Do not install or use near combustibles.						
$\land$	THIS APPLAINCE IS ENERGIZED WHENEVER IT IS CONNECTEDTO A POWER SOURCE						
À	FAILURE TO COMPLY RISKS EQUIPMENT DAMAGE, PROPERTY DAMAGE, FIRE, OR SHOCK HAZARD						
Notice	This equipment must be installed with a backckflow protection device to comply with federal, state or local municipality codes.						
Notice	Read the user guide before installing and operating this unit.						

USA and Car	ISA and Canada		CBS_2141XTS—Single 1 gallon version Electrical Configurations						
Configuration Code		Heater				Electrical			Gallon/Hour
Plastic Brewbasket	Stainless Steel Brewbasket	Configuration	Voltage	Phase	Wires	Connection	KW	Amp Draw	(1 gallon per batch)
E214154	E214154M	1 X 1.7 kW	100 - 120	1	2+G	NEMA 5-15P	1.3 – 1.8	12.3 - 14.7	4.4 gal/16.7 liter
E214151	E214151M	1 X 2.3 kW	100 - 120	1	2+G	NEMA 5-20P	1.7 – 2.4	16.5 - 19.7	5.8 gal/22 liter
International	CE	3S_2141XTS—S	ingle 1 gallo	n versio	n Electrica	I Configuration	IS		
Configur	ation Code	Heater				Flectrical			Gallon/Hour

#### CBS\_2141XTS—Single 1 gallon version Electrical Configurations 110 Electrical Configurations OA AAVTO Single 1 gellen v

Configur Plastic Brewbasket	ration Code Stainless Steel Brewbasket	Heater Configuration	Voltage	Phase	Wires	Electrical Connection	ĸw	Amp Draw	Gallon/Hour (1 gallon per batch)
E214192	E214192M	1 X 1.7 kW	100 - 120	1	2+G	NEMA 5-15P	1.3 – 1.8	12.3 - 14.7	4.4 gal/16.7 liter
E214193	E214193M	1 X 2.3 kW	100 - 120	1	2+G	NEMA 5-20P	1.7 – 2.4	16.5 - 19.7	5.8 gal/22 liter
E214190	E214190M	1 X 3.0 kW	200-240	1	2+G	Hardwired	3.1	10.8 - 12.9	7.7 gal/29.1 liter
E214191	E214191M	1 X 4.0 kW	200-240	1	2+G	Hardwired	4.0	14.2 - 17.1	9.3 gal/35 liters
EXPORT/Japa	an	CBS_21	41XTS—Sing	gle 1 gall	on versio	n Electrical Con	figurations	6	·
Configura	ation Codes	Heater	Voltage	Phase	Wires	Electrical	ĸW	Maximum	Brew-Volume/Hour

Wires

2+G

2+G

CBS\_2141XTS—Single 1 gallon version Electrical Configurations

Connection

Hardwired

Hardwired

Electrical

KW

2.2

2.9

Amp Draw

10.8

14.2

(11/2 gallon per batch)

7.0 gal/26.5liter

8.6 gal/32.5 liters

Gallon/Hour

(1 gallon per batch)

9.7 gal/36.7 liter

Plastic Brewbasket	Stainless Steel Brewbasket	Configuration	Voltage	Phase	Wires	Connection	KW	Amp Draw	
(CE) E214161	(CE) E214161M	1 X 3.0 kW	230	1	L,N,PE	Hardwired	2.8	12.4	
Has CE and NSF-4 certification. Internal EMI filter. Not cUL and UL listed									

Phase

1

1

Voltage

200

200

#### CBS\_2142XTS—Twin 1 gallon version Electrical Configurations

Configuration

1 X 3.0 kW

1 X 4.0 kW

Heater

Plastic

Brewbasket

E214180

E214181

**CE EXPORT** 

Stainless Steel

**Brewbasket** 

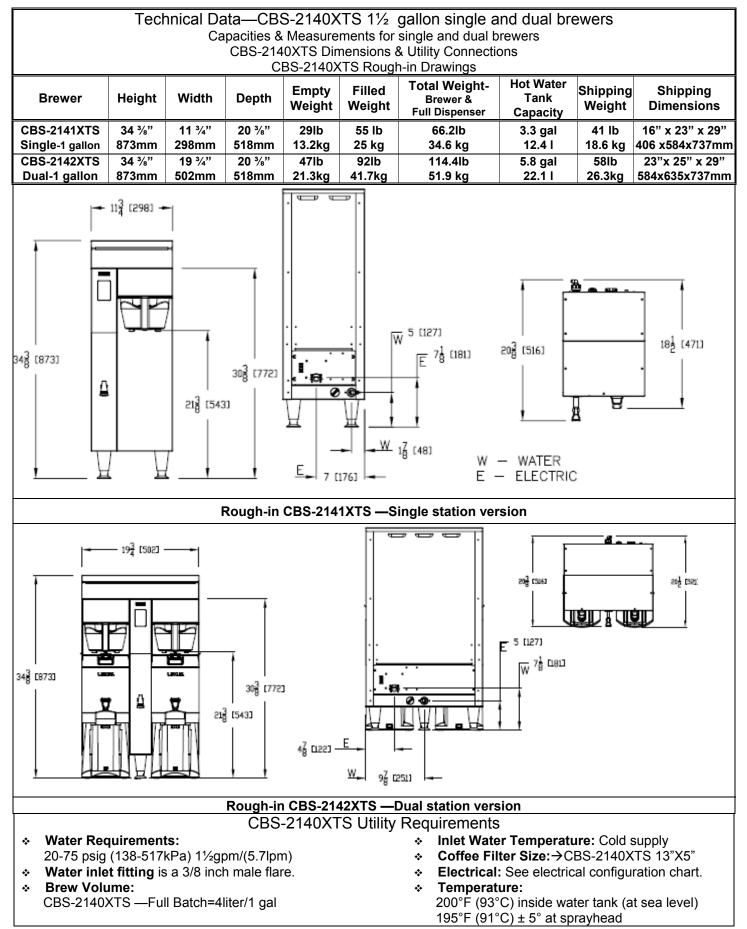
E214180M

E214181M

**Configuration Code** 

North Americ	а		CBS_21422	KIS—Iw	in 1 gallor	n version Elect	rical Config	gurations	
Configura Plastic Brewbasket	ation Code Stainless Steel Brewbasket	Heater Configuration	Voltage	Phase	Wires	Electrical Connection	ĸw	Amp Draw	Gallon/Hour (1 gallon per batch)
E214251	E214251M	2 X 3.0 kW	200-240	1	2+G	Hardwired	4.2 – 6.1	21.3—25.5	14.0 gal/53 liter
North Americ	ca & Internation	nal Versions	CBS_2142X	TS—Twi	n 1 gallon	version Electri	cal Configu	urations	
Configuration Code		Heater				Electrical			Gallon/Hour
Plastic Brewbasket	Stainless Steel Brewbasket	Configuration	Voltage	Phase	Wires	Connection	KW	Amp Draw	(1 gallon per batch)
E214290	E214290M	2 X 2.3 kW	200-240	1	2+G	Hardwired	4.7	16.5 - 19.7	11.5 gal/43.5 liter
E214291	E214291M	2 X 3.0 kW	200-240	1	2+G	Hardwired	6.1	21.2 - 25.4	14.0 gal/53 liter
Has cUL &UL	and NSF-4 cert	fication. Not ce	rtified CE						
Has cUL &UL EXPORT/Japa				n version	Electrical	Configurations	5		
EXPORT/Japa Configura	an Cl ation Codes	BS_2142XTS—T	win 1 gallor					Maximum	Brew-Volume/Hour
EXPORT/Japa	in Cl			n version Phase	Electrical Wires	Configurations Electrical Connection	s KW	Maximum Amp Draw	
EXPORT/Japa Configura Plastic	an Cl ation Codes Stainless Steel	BS_2142XTS—T Heater	win 1 gallor			Electrical			
EXPORT/Japa Configura Plastic Brewbasket	an Cl ation Codes Stainless Steel Brewbasket	BS_2142XTS—T Heater Configuration	win 1 gallor Voltage	Phase	Wires	Electrical Connection	ĸw	Amp Draw	(1½ gallon per batch 14.0 gal/53 liter
EXPORT/Japa Configura Plastic Brewbasket E214280	an Cl ation Codes Stainless Steel Brewbasket E214280M E214281M	3S_2142XTS—T Heater Configuration 2 X 3.0 kW	win 1 gallon Voltage 200 200	Phase 1 1	Wires 2+G 2+G	Electrical Connection Hardwired Hardwired	KW 4.3 5.7	Amp Draw 21.2	Brew-Volume/Hour (1½ gallon per batch 14.0 gal/53 liter 17.1 gal/65 liters
EXPORT/Japa Configura Plastic Brewbasket E214280 E214281 CE EXPORT	an Cl ation Codes Stainless Steel Brewbasket E214280M E214281M	SS_2142XTS—T Heater Configuration 2 X 3.0 kW 2 X 4.0 kW SS_2152XTS—T	Win 1 gallon Voltage 200 200 Win 1½ gallo	Phase 1 1 on versio	Wires 2+G 2+G n Electrica	Electrical Connection Hardwired Hardwired I Configuratior	KW 4.3 5.7	Amp Draw 21.2 28.5	(1½ gallon per batch 14.0 gal/53 liter 17.1 gal/65 liters
EXPORT/Japa Configura Plastic Brewbasket E214280 E214281 CE EXPORT	an Cl ation Codes Stainless Steel Brewbasket E214280M E214281M Cl	SS_2142XTS—T Heater Configuration 2 X 3.0 kW 2 X 4.0 kW	win 1 gallon Voltage 200 200	Phase 1 1	Wires 2+G 2+G	Electrical Connection Hardwired Hardwired	KW 4.3 5.7	Amp Draw 21.2	(1½ gallon per batch 14.0 gal/53 liter

Designs, materials, specifications, physical dimensions, firmware and software protocol for equipment or replacement parts are subject to review and change by FETCO without notice



# Error Codes

Code	Description	Possible Cause	Corrective Action	How to Clear Error Codes
001	Software error-error on start up or corrupted software	Improper start-up or shutdown	Restart , if still fault: reload software	
050	Shorted temperature probe	Probe failure.	Replace probe.	
051	Open temperature probe.	Bad probe connection, or probe failure.	Check all connections. Replace probe if necessary.	TO CLEAR FAULT,
100	Initial Fill Error. Initial fill time was more than 11 minutes after power up.	Water supply flow rate is too low.	Watch for short potting during brew cycle. Investigate cause of low flow rate. (Clogged water filter)	Make repairs as required Below is the only way to clear error codes
101	Error on refill Tank did not refill within 3 minutes.	Water supply flow rate is too low.	Watch for short potting during brew cycle. Investigate cause of low flow rate. (Clogged water filter)	1) Enter "PROGRAMMING" 2)Scroll left to "OTHER"
102	Unwanted fill; Occurs between brews when the fill valve operates.	Possible leak in tank, fitting, or valve	Check for internal leaks	3)Scroll down to "ERROR CODES"
107	Lower liquid level probe Fault	-Tank not filling -Orange wire to temperature probe disconnected -Very pure water	Occurs after prefill -Low probe is uncovered -Wires are reversed -Set LLC sensitivity to HIGH see MENU—GENERAL-LLC	4)Scroll down to "Display Errors" 5)Scroll left to "Reset Errors"
201	Heater open, high limit thermostat, or Solid State Relay (SSR) fault	Failure of: heating element,SSR,high Limit or low voltage	Check and replace heating elements if necessary.	6)Scroll down to "Reset"
255	Touch pad error	Usually from longer than 2 min contact. Or faulty reassembly after service	Restart, if still fault: reload software. If mechanical: reassemble correctly	7)Follow directions shown on screen.
INSE BRE BASI	EW	Brewbasket must be in place	Insert brewbasket	Merely toggling ON/OFF switch <u>will not</u> clear error codes. Error codes must be cleared by entering PROGRAMMING and using the menus!

! → Never attempt to defeat or override a brew basket-locking feature

# **Final Setup for Startup**

#### Final Setup

- 1. Turn on incoming water supply line and carefully inspect both inside and outside of the brewer for leaks in all fittings and tubes
- 2. Turn on power.
- 3. Press the brewer's main power switch (located on the lower right of the back of the equipment)

SCREENS SHOWN TO THE RIGHT WILL APPEAR

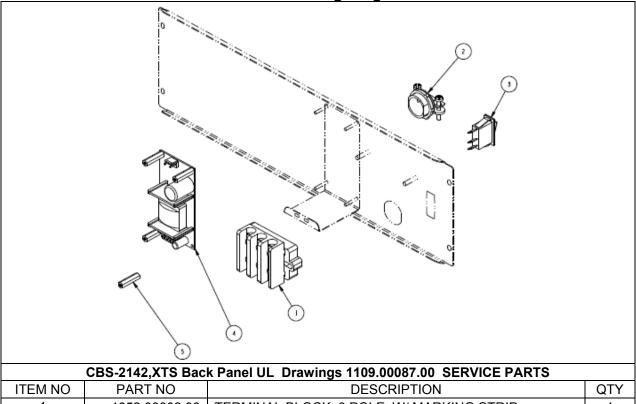
- The water tank will begin filling. FETCO Home Screen #1 will read "FILLING".
- 5. When the water level rises and is sensed by the probe at the top of the tank the heaters will activate
- 6. Heaters are automatically disabled until the tank is full.
- 7. While the water is heating Screen #2 "HEATING" will display and the actual water temperature will be displayed.

Ρ

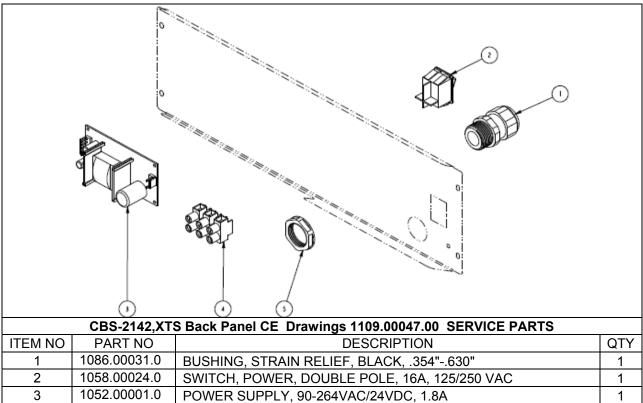
- 8. After the water has reached the set temperature Screen #3 will display "READY"
- 9. Review the Operating Instructions. Brew one full batch (water only) on each side to confirm proper fill levels. The brewer is factory set with water only (no coffee) to dispense the correct amount of water. If the actual volume is slightly different from the programmed volume, fine-tuning the brewer may be necessary. See Calibrate Valves in the OUTPUT section in the PROGRAMMING section.
- 10. Re-attach the covers after one final inspection for leaks. Look closely in the top of the brewer section at the dispense fittings during this inspection.







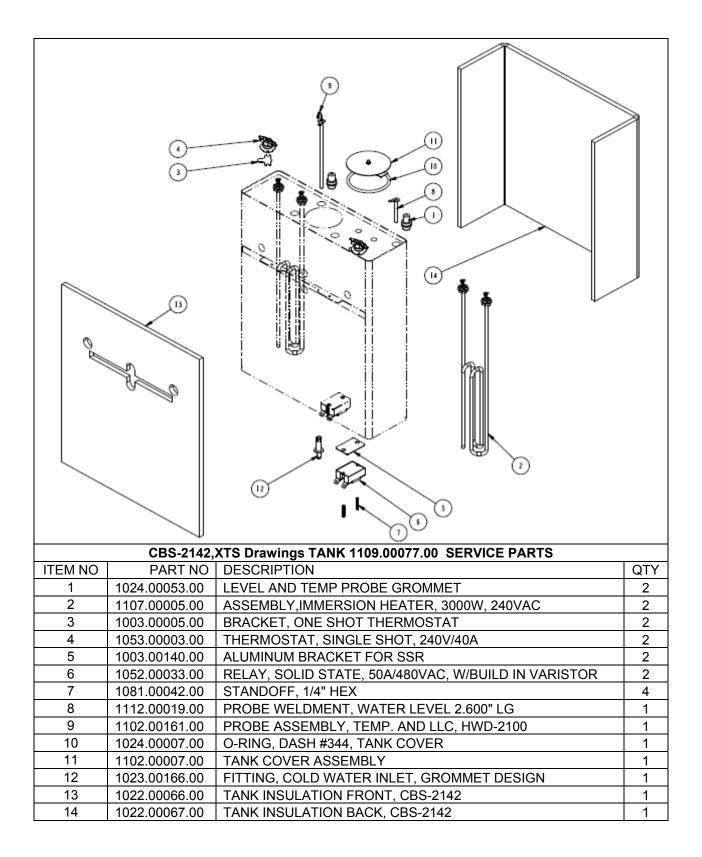
ITEM NO	PART NO	DESCRIPTION	QTY
1	1052.00002.00	TERMINAL BLOCK, 3 POLE, W/ MARKING STRIP	1
2	1086.00008.00	CONNECTOR, CABLE CLAMP, 3/4"	1
3	1058.00020.00	SWITCH, PWR ROCKER RED, ILLUM. 250VAC	1
4	1052.00001.00	POWER SUPPLY, 90-264VAC/24VDC, 1.8A	1
5	1029.00012.00	SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD	4



1

1

	CBS-21	42,XTS Drawings 1109.00060.00 SERVICE PARTS	
ITEM NO	PART NO	DESCRIPTION	QTY
1	1071.00010.00	FAUCET HPSC-BR-8 REGULAR HANDLE	1
2	1102.00210.00	ASSEMBLY FRONT PANEL, CBS-2130, GRAVITY VERSION	1
3	1024.00040.00	CARD PLUG, HWD-2100	1
4	1102.00203.00	ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN	2
5	1102.00220.00	ASSEMBLY, BYPASS VALVE, RIGHT	1
6	1102.00113.00	SWITCH, REED, ASSEMBLY	2
7	1102.00219.00	ASSEMBLY, BB LOCKER, 24VDC	2
8	1102.00221.00	ASSEMBLY, BYPASS VALVE, LEFT	1
9	1001.00181.00	COVER FRONT, CBS-2100 XTS	2
10	1402.00051.00	HARNESS LOW AMP, CBS-2142/52 XTS, CE/UL	1
11	1402.00060.00	HARNESS, HIGH AMP, CBS-2142 XTS, UL	1
12	1057.00043.00	SOLENOID VALVE, SINGLE, 180 DEG, 24VDC	1
13	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE	1
14	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18GA AND UP BODY	1
15	1073.00002.00	LEG, FLANGE FOOT, 4.0" HIGH	3
16	1104.00060.00	TANK ASSY, 2 X 3.0KW/240V, CBS-2142 XTS	1
17	1102.00208.00	ASSEMBLY BACK PANEL, CBS-2132 AND 2142	1
18	B014218BN2	BB ASSY, 13" X 5", in .218" HOLE, BRN PLUG	2
18	B003218B1	BREW BASKET ASSY, 13" X 5", .218 DIA HOLE, BLACK	2



	1	1,XTS Drawings 1109.00059, 55.00 SERVICE PARTS	
ITEM NO	PART NO	DESCRIPTION	QTY
1	1102.00210.00	ASSEMBLY FRONT PANEL, CBS-2130, GRAVITY VERSION	1
2	1071.00010.00	FAUCET HPSC-BR-8 REGULAR HANDLE	1
3	1024.00040.00	CARD PLUG, HWD-2100	1
4	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50	1
5	1102.00203.00	ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN	1
6	1102.00220.00	ASSEMBLY, BYPASS VALVE, RIGHT	1
7	1102.00113.00	SWITCH, REED, ASSEMBLY	1
8	1102.00219.00	ASSEMBLY, BB LOCKER, 24VDC	1
9	1001.00181.00	COVER FRONT, CBS-2100 XTS	1
10	1073.00002.00	LEG, FLANGE FOOT, 4.0" HIGH	4
11	1057.00043.00	SOLENOID VALVE, SINGLE, 180 DEG, 24VDC	1
12	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE	1
13	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18GA AND UP BODY	1
14	1402.00045.00	HARNESS LOW AMP, CBS-2141/51 XTS, CE/UL	1
15	1402.00062.00	HARNESS, HIGH AMP, CBS-2131/41 XTS, UL	1
16	1104.00059.00	TANK ASSY, 3.0kW/240V, CBS-2141 XTS	1
16	1104.00065.00	TANK ASSY, 2.3kW/120VAC, CBS-2141 XTS	1
17	1102.00209.00	ASSEMBLY BACK PANEL, CBS-2141	1
18	B014218BN2	BB ASSY, 13" X 5", IN <sup>*</sup> .218" HOLE, BRN PLUG	2
18	B003218B1	BREW BASKET ASSY, 13" X 5", .218 DIA HOLE, BLACK	2
19	1102.00240.00	ASSEMBLY POWER CORD, 20A/120VAC, 5-20P NEMA PLUG	1
19	1102.00238.00	ASSEMBLY POWER CORD, 16A/250VAC, EU1-16P PLUG	1

	000		
	CBS 2141 Y		
ITEM NO	<u>CD3-214</u> 1,X	TS Drawings TANK 1109.00078, 72.00 SERVICE PARTS	
1	PART NO	DESCRIPTION	QTY
2		DESCRIPTION LEVEL AND TEMP PROBE GROMMET	QTY 2
	PART NO	DESCRIPTION	
2	PART NO 1024.00053.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET	2
2 2	PART NO 1024.00053.00 <b>1107.00005.00</b>	DESCRIPTION LEVEL AND TEMP PROBE GROMMET ASSEMBLY,IMMERSION HEATER, 3000W, 240VAC	2 1
	PART NO 1024.00053.00 <b>1107.00005.00</b> <b>1107.00029.00</b>	DESCRIPTION LEVEL AND TEMP PROBE GROMMET ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC HEATER ASSEMBLY, IMMERSION 2300W/120VAC	2 1 1
2	PART NO 1024.00053.00 1107.00005.00 1107.00029.00 1107.00030.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC HEATER ASSEMBLY, IMMERSION 2300W/120VAC HEATER ASSEMBLY, IMMERSION 1500W/120VAC	2 1 1 1
<b>2</b> 2	PART NO 1024.00053.00 <b>1107.00005.00</b> <b>1107.00029.00</b> <b>1107.00030.00</b> 1107.00031.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC HEATER ASSEMBLY, IMMERSION 2300W/120VAC HEATER ASSEMBLY, IMMERSION 1500W/120VAC HEATER ASSEMBLY, IMMERSION 1700W/120VAC BRACKET, ONE SHOT THERMOSTAT	2 1 1 1 1
<b>2</b> 2 3	PART NO 1024.00053.00 <b>1107.00005.00</b> <b>1107.00029.00</b> <b>1107.00030.00</b> 1107.00031.00 1003.00005.00 1053.00003.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC HEATER ASSEMBLY, IMMERSION 2300W/120VAC HEATER ASSEMBLY, IMMERSION 1500W/120VAC	2 1 1 1 1 2
2 2 3 4	PART NO 1024.00053.00 <b>1107.00005.00</b> <b>1107.00030.00</b> 1107.00031.00 1003.00005.00 1053.00003.00 1003.00140.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC HEATER ASSEMBLY, IMMERSION 2300W/120VAC HEATER ASSEMBLY, IMMERSION 1500W/120VAC HEATER ASSEMBLY, IMMERSION 1700W/120VAC BRACKET, ONE SHOT THERMOSTAT THERMOSTAT, SINGLE SHOT, 240V/40A ALUMINUM BRACKET FOR SSR	2 1 1 1 2 2
2 2 3 4 5	PART NO 1024.00053.00 <b>1107.00005.00</b> <b>1107.00029.00</b> <b>1107.00030.00</b> 1107.00031.00 1003.00005.00 1053.00003.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET <b>ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC</b> <b>HEATER ASSEMBLY, IMMERSION 2300W/120VAC</b> <b>HEATER ASSEMBLY, IMMERSION 1500W/120VAC</b> HEATER ASSEMBLY, IMMERSION 1700W/120VAC BRACKET, ONE SHOT THERMOSTAT THERMOSTAT, SINGLE SHOT, 240V/40A ALUMINUM BRACKET FOR SSR RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR	2 1 1 2 2 2 2 2
2 2 3 4 5 6 7	PART NO 1024.00053.00 1107.0009.00 1107.00030.00 1107.00031.00 1003.00005.00 1053.00003.00 1003.00140.00 1052.00033.00 1081.00042.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET <b>ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC</b> <b>HEATER ASSEMBLY, IMMERSION 2300W/120VAC</b> <b>HEATER ASSEMBLY, IMMERSION 1500W/120VAC</b> HEATER ASSEMBLY, IMMERSION 1700W/120VAC BRACKET, ONE SHOT THERMOSTAT THERMOSTAT, SINGLE SHOT, 240V/40A ALUMINUM BRACKET FOR SSR RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR STANDOFF, 1/4" HEX	2 1 1 1 2 2 2 2 2 4
2 2 3 4 5 6 7 8	PART NO 1024.00053.00 1107.00005.00 1107.00030.00 1107.00031.00 1003.00005.00 1053.00003.00 1003.00140.00 1052.00033.00 1081.00042.00 1112.00019.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC HEATER ASSEMBLY, IMMERSION 2300W/120VAC HEATER ASSEMBLY, IMMERSION 1500W/120VAC HEATER ASSEMBLY, IMMERSION 1700W/120VAC BRACKET, ONE SHOT THERMOSTAT THERMOSTAT, SINGLE SHOT, 240V/40A ALUMINUM BRACKET FOR SSR RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR STANDOFF, 1/4" HEX PROBE WELDMENT, WATER LEVEL 2.600" LG	2 1 1 2 2 2 2 2 4 1
2 2 3 4 5 6 7 8 9	PART NO 1024.00053.00 1107.0005.00 1107.00030.00 1107.00030.00 1107.00031.00 1003.00005.00 1053.00003.00 1053.00003.00 1052.00033.00 1081.00042.00 1112.00019.00 1102.00161.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET <b>ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC</b> <b>HEATER ASSEMBLY, IMMERSION 2300W/120VAC</b> <b>HEATER ASSEMBLY, IMMERSION 1500W/120VAC</b> HEATER ASSEMBLY, IMMERSION 1700W/120VAC BRACKET, ONE SHOT THERMOSTAT THERMOSTAT, SINGLE SHOT, 240V/40A ALUMINUM BRACKET FOR SSR RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR STANDOFF, 1/4" HEX PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, HWD-2100	2 1 1 2 2 2 2 2 4 1 1
2 2 3 4 5 6 7 8 9 10	PART NO 1024.00053.00 1107.0005.00 1107.00029.00 1107.00030.00 1107.00031.00 1003.00005.00 1053.00003.00 1053.00003.00 1052.00033.00 1081.00042.00 1112.00019.00 1102.00161.00 1024.00007.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC HEATER ASSEMBLY, IMMERSION 2300W/120VAC HEATER ASSEMBLY, IMMERSION 1500W/120VAC HEATER ASSEMBLY, IMMERSION 1700W/120VAC BRACKET, ONE SHOT THERMOSTAT THERMOSTAT, SINGLE SHOT, 240V/40A ALUMINUM BRACKET FOR SSR RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR STANDOFF, 1/4" HEX PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, HWD-2100 O-RING, DASH #344, TANK COVER	2 1 1 2 2 2 2 2 4 1 1 1
2 2 3 4 5 6 7 8 9 10 11	PART NO 1024.00053.00 1107.00095.00 1107.00030.00 1107.00031.00 1003.00005.00 1053.00003.00 1003.00140.00 1052.00033.00 1081.00042.00 1112.00019.00 1102.00161.00 1024.00007.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC HEATER ASSEMBLY, IMMERSION 2300W/120VAC HEATER ASSEMBLY, IMMERSION 1500W/120VAC HEATER ASSEMBLY, IMMERSION 1700W/120VAC BRACKET, ONE SHOT THERMOSTAT THERMOSTAT, SINGLE SHOT, 240V/40A ALUMINUM BRACKET FOR SSR RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR STANDOFF, 1/4" HEX PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, HWD-2100 O-RING, DASH #344, TANK COVER TANK COVER ASSEMBLY	2 1 1 2 2 2 2 2 4 1 1 1 1
2 2 3 4 5 6 7 8 9 10	PART NO 1024.00053.00 1107.0005.00 1107.00029.00 1107.00030.00 1107.00031.00 1003.00005.00 1053.00003.00 1053.00003.00 1052.00033.00 1081.00042.00 1112.00019.00 1102.00161.00 1024.00007.00	DESCRIPTION LEVEL AND TEMP PROBE GROMMET ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC HEATER ASSEMBLY, IMMERSION 2300W/120VAC HEATER ASSEMBLY, IMMERSION 1500W/120VAC HEATER ASSEMBLY, IMMERSION 1700W/120VAC BRACKET, ONE SHOT THERMOSTAT THERMOSTAT, SINGLE SHOT, 240V/40A ALUMINUM BRACKET FOR SSR RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR STANDOFF, 1/4" HEX PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, HWD-2100 O-RING, DASH #344, TANK COVER	2 1 1 2 2 2 2 2 4 1 1 1

